

By Tuesday Rost

Access DB# 160878

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Richard Lee Examiner #: 71786 Date: 8/11/03
Art Unit: 2613 Phone Number 30 8-6612 Serial Number: _____
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Litigation

2) US

1) US

5745182

(child)

7 family

5369449

(parent)

first

Need by Tues. a.m.

Look for

See attached Serial # two

STAFF USE ONLY

Searcher: Pamela Reynolds

Searcher Phone #: 306-0255

Searcher Location: PL2 303

Date Searcher Picked Up: 8-12-03

Date Completed: 8-12-03

Searcher Prep & Review Time: _____

Clerical Prep Time: _____

Online Time: _____

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog ☒

Questel/Orbit ☒

Dr.Link _____

Lexis/Nexis ☒

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US5369449 A 19941129 [US5369449]

TI - (A) Method for predicting move compensation

PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)

PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]

IN -

(A) YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

AP -

US97004692 19921102 [1992US-0970046]

PR- JP18198092 19920709 [1992JP-0181980]

JP29300491 19911108 [1991JP-0293004]

IC - (A) H04N-007/137

EC- H04N-005/14M2

H04N-005/44P

H04N-007/26P36E

H04N-007/36E

H04N-007/36E4

H04N-007/36E8

H04N-007/46E

PCL - ORIGINAL (O) : 348699000; CROSS-REFERENCE (X) : 375240120

DT -

Corresponding document

CT - US4691230; US4864294; US4989089; US4998168; US5049991; US5093720;
US5105271; US5132792; US5144427; US5162907; US5175618; US5191414; US5200820;
US5210605; EP0395271 A2; EP0395440 A2; EP0447068 A2; EP0484140 A2

A. Puri, et al, "Video Coding with Motion-Compensated Interpolation for CD-ROM Applications", Signal Processing. Image Communication, vol. 2, No. 2, pp. 127-144, Aug. 1990.

K. Kinuhata, et al, "Universal Digital TV Codec-Unicodex", 7th International Conference on Digital Satellite Communications, May 1986, pp. 281-288.

M. Hoetter, "Differential Estimation of the Global Motion Parameters Zoom and Pan", Signal Processing. European Journal Devoted to the Methods and Applications of Signal Processing, vol. 16, No. 3, Mar. 1989, pp. 249-265.

Patent Abstracts of Japan, vol. 016, No. 097 (E-1176) 10 Mar. 1992 & JP-A-03 276 988 (Victor Company of Japan Ltd) 9 Dec. 1991.

"Transmission of Component-Coded Digital Television Signals for Contribution-Quality Applications of the Third Hierarchical Level of CCITT Recommendation G.702," CCITT Recommendation 723 of CMTT. Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding (2)" International Organization for Standardization ISO/IEC/JTC1/SC29/WG11 MPEG92/100, Mar. 11, 1992.

Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding" CCITT SGXV Working Party XV/1 Experts Group for ATM Video Coding, AVC-194 MPEG 92/024s, Dec. 1991. Shiji Inoue, et al "Motion Compensation Method for Interlace Video" Spring conference of the institute of Electronics Information and Communication Engineers of Japan, 1992.

STG - (A) United States patent

AB - A method for predicting move compensation of an input image based on a move vector of the input image from this input image to a reference image which has been sampled at a first set time, and the method includes calculating a move vector of the input image based on a move, at a second set time, of a block unit which is a part of the input image and consists of a plurality of pixels, and calculating a move vector of the reference image based on a move, at the first set time, of a block unit which is a part of the reference image and consists of a plurality of pixels. Move

compensation of the input image is calculated both from the move vector of the input image and from the move vector of the reference image, to thereby realize a method for predicting move compensation with high precision.

1 / 1 LGST - ©LEGSTAT

PN - US 5369449 [US5369449]

AP- US 970046/92 19921102 [1992US-0970046]

DT- US-P

ACT- 19921102 US/AE-A

APPLICATION DATA (PATENT)

US 970046/92 19921102 [1992US-0970046]

19921102 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA,
KADOMA-SHI OSAKA,

JAP * YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI : 19921028

19941129 US/A

PATENT

UP - 1999-15

3/39/1 (Item 1 from file: 345)
DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat
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11148435

Basic Patent (No,Kind,Date): CA 2082280 AA 19930509 <No. of Patents: 016>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AU 637289	B1	19930520	AU 9228162	A	19921104	
CA 2082280	AA	19930509	CA 2082280	A	19921105	(BASIC)
CA 2082280	C	19950207	CA 2082280	A	19921105	
DE 69225863	C0	19980716	DE 69225863	A	19921106	
DE 69225863	T2	19981022	DE 69225863	A	19921106	
EP 541389	A2	19930512	EP 92310187	A	19921106	
EP 541389	A3	19940330	EP 92310187	A	19921106	
EP 541389	B1	19980610	EP 92310187	A	19921106	
JP 5130594	A2	19930525	JP 91293004	A	19911108	
JP 6030395	A2	19940204	JP 92181980	A	19920709	
JP 2929044	B2	19990803	JP 91293004	A	19911108	
JP 2938677	B2	19990823	JP 92181980	A	19920709	
KR 9506774	B1	19950622	KR 9220769	A	19921106	
US 5369449	A	19941129	US 970046	A	19921102	
US 5745182	A	19980428	US 278010	A	19940720	
US 5978032	A	19991102	US 883315	A	19970626	

Priority Data (No,Kind,Date):

JP 91293004 A 19911108
JP 92181980 A 19920709
US 278010 A 19940720
US 970046 A3 19921102
US 883315 A 19970626
US 278010 A3 19940720

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 637289 B1 19930520
METHOD FOR PREDICTING MOVE COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): YUKITAKE TAKESHI; INOUE SHUJI
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applic (No,Kind,Date): AU 9228162 A 19921104
IPC: * G06F-015/70; G06F-015/68; H04N-007/137
Language of Document: English

CANADA (CA)

Patent (No,Kind,Date): CA 2082280 AA 19930509
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applic (No,Kind,Date): CA 2082280 A 19921105
IPC: *) H04N-007/12
Language of Document: English
Patent (No,Kind,Date): CA 2082280 C 19950207
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): CA 2082280 A 19921105
IPC: * H04N-007/12
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 69225863 CO 19980716
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A
19920709

Applic (No,Kind,Date): DE 69225863 A 19921106
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: German

Patent (No,Kind,Date): DE 69225863 T2 19981022
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A
19920709

Applic (No,Kind,Date): DE 69225863 A 19921106
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):
DE 69225863 P 19980716 DE REF CORRESPONDS TO (ENTSPRICHT)

DE 69225863 P 19981022 DE 8373 EP 541389 P 19980716
TRANSLATION OF PATENT
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
HAS BEEN PUBLISHED (UEBERSETZUNG DER
PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69225863 P 19990708 DE 8364 NO OPPOSITION DURING TERM OF
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE
DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 541389 A2 19930512
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A
19920709

Applic (No,Kind,Date): EP 92310187 A 19921106
Designated States: (National) BE; DE; FR; GB; NL; SE
IPC: * H04N-007/13
Derwent WPI Acc No: ; G 93-154317
Language of Document: English

Patent (No,Kind,Date): EP 541389 A3 19940330
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A

19920709
 Applic (No,Kind,Date): EP 92310187 A 19921106
 Designated States: (National) BE; DE; FR; GB; NL; SE
 IPC: * H04N-007/13
 Derwent WPI Acc No: * G 93-154317
 JAPIO Reference No: * 170511E000053
 Language of Document: English
 Patent (No,Kind,Date): EP 541389 B1 19980610
 METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
 Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108
 Applic (No,Kind,Date): EP 92310187 A 19921106
 Designated States: (National) BE; DE; FR; GB; NL; SE
 IPC: * H04N-007/24; H04N-007/32
 Derwent WPI Acc No: * G 93-154317
 JAPIO Reference No: * 170511E000053; 180246E000083
 Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 541389	P	19911108	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 541389	P	19920709	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 541389	P	19921106	EP AE	JP 91293004 A 19911108 EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
EP 541389	P	19930512	EP AK	JP 92181980 A 19920709 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
EP 541389	P	19930512	EP A2	BE DE FR GB NL SE PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 541389	P	19940330	EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
EP 541389	P	19940330	EP A3	BE DE FR GB NL SE SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 541389	P	19941019	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 940818
EP 541389	P	19951220	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 951102
EP 541389	P	19980610	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)

		BE DE FR GB NL SE	
EP 541389	P	19980610 EP B1	PATENT SPECIFICATION
		(PATENTSCHRIFT)	
EP 541389	P	19980716 EP REF	CORRESPONDS TO:
		(ENTSPRICHT)	
		DE 69225863 P	19980716
EP 541389	P	19980911 EP ET	FR: TRANSLATION FILED (FR:
		TRADUCTION A ETE REMISE)	
EP 541389	P	19990602 EP 26N	NO OPPOSITION FILED (KEIN
		EINSPRUCH EINGELEGT)	
EP 541389	P	20020101 GB IF02/REG	EUROPEAN PATENT IN FORCE AS
		OF 2002-01-01	

JAPAN (JP)

Patent (No,Kind,Date): JP 5130594 A2 19930525
 DEVICE FOR PREDICTIVE ENCODING BETWEEN MOTION-COMPENSATED FRAMES
 (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
 Author (Inventor): INOUE SHUJI
 Priority (No,Kind,Date): JP 91293004 A 19911108
 Applic (No,Kind,Date): JP 91293004 A 19911108
 IPC: * H04N-007/137; H03M-007/30
 JAPIO Reference No: ; 170511E000053
 Language of Document: Japanese
 Patent (No,Kind,Date): JP 6030395 A2 19940204
 METHOD FOR PREDICTING MOTION COMPENSATION (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
 Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI
 Priority (No,Kind,Date): JP 92181980 A 19920709
 Applic (No,Kind,Date): JP 92181980 A 19920709
 IPC: * H04N-007/137
 JAPIO Reference No: ; 180246E000083
 Language of Document: Japanese
 Patent (No,Kind,Date): JP 2929044 B2 19990803
 Priority (No,Kind,Date): JP 91293004 A 19911108
 Applic (No,Kind,Date): JP 91293004 A 19911108
 IPC: * H04N-007/32; H03M-007/30
 Derwent WPI Acc No: * G 93-154317
 JAPIO Reference No: * 170511E000053
 Language of Document: Japanese
 Patent (No,Kind,Date): JP 2938677 B2 19990823
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
 Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI
 Priority (No,Kind,Date): JP 92181980 A 19920709
 Applic (No,Kind,Date): JP 92181980 A 19920709
 IPC: * H04N-007/32
 Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 9506774 B1 19950622
 MOTION COMPENSATION PREDICTIVE METHOD (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SYUJI (JP)
 Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
 Applic (No,Kind,Date): KR 9220769 A 19921106
 IPC: * H04N-007/24
 Derwent WPI Acc No: * G 93-154317
 JAPIO Reference No: * 170511E000053; 180246E000083
 Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5369449 A 19941129
 METHOD FOR PREDICTING MOVE COMPENSATION (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
 Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108
 Applic (No,Kind,Date): US 970046 A 19921102
 National Class: * 348699000; 348416000
 IPC: * H04N-007/137
 Derwent WPI Acc No: * G 93-154317
 JAPIO Reference No: * 170511E000053; 180246E000083
 Language of Document: English

Patent (No,Kind,Date): US 5745182 A 19980428
 METHOD FOR DETERMINING MOTION COMPENSATION (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
 Priority (No,Kind,Date): US 278010 A 19940720; JP 91293004 A 19911108; JP 92181980 A 19920709; US 970046 A3 19921102
 Applic (No,Kind,Date): US 278010 A 19940720
 Addnl Info: 5369449 Patented
 National Class: * 348416000; 348699000
 IPC: * H04N-007/32
 Derwent WPI Acc No: * G 93-154317
 JAPIO Reference No: * 170511E000053; 180246E000083
 Language of Document: English

Patent (No,Kind,Date): US 5978032 A 19991102
 METHOD FOR PREDICTING MOTION COMPENSATION (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
 Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
 Priority (No,Kind,Date): US 883315 A 19970626; JP 91293004 A 19911108; JP 92181980 A 19920709; US 278010 A3 19940720; US 970046 A3 19921102
 Applic (No,Kind,Date): US 883315 A 19970626
 Addnl Info: 5745182 Patented; 5369449 Patented
 National Class: * 348416000; 348699000
 IPC: * H04N-007/32
 Derwent WPI Acc No: * G 93-154317
 JAPIO Reference No: * 170511E000053; 180246E000083
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5369449	P	19911108	US AA	PRIORITY (PATENT)
			JP 91293004 A	19911108
US 5369449	P	19920709	US AA	PRIORITY (PATENT)
			JP 92181980 A	19920709
US 5369449	P	19921102	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 970046 A	19921102
US 5369449	P	19921102	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
			MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA, JAP ;	
			YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI : 19921028	
US 5369449	P	19941129	US A	PATENT
US 5745182	P	19911108	US AA	PRIORITY (PATENT)
			JP 91293004 A	19911108
US 5745182	P	19920709	US AA	PRIORITY (PATENT)
			JP 92181980 A	19920709

US 5745182	P	19921102	US AA	PRIORITY
		US 970046	A3	19921102
US 5745182	P	19940720	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 278010	A	19940720
US 5745182	P	19980428	US A	PATENT
US 5745182	P	20000613	US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)		
		20000427		
US 5978032	P	19911108	US AA	PRIORITY (PATENT)
		JP 91293004	A	19911108
US 5978032	P	19920709	US AA	PRIORITY (PATENT)
		JP 92181980	A	19920709
US 5978032	P	19921102	US AA	PRIORITY
		US 970046	A3	19921102
US 5978032	P	19940720	US AA	PRIORITY
		US 278010	A3	19940720
US 5978032	P	19970626	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 883315	A	19970626
US 5978032	P	19991102	US A	PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5369449

<=1> GET 1st DRAWING SHEET OF 6
<=21> Link to Claims Section

November 29, 1994

LEXIS-NEXIS
Library: PATENT
File: ALL

Method for predicting move compensation

INVENTOR: Yukitake, Takeshi, Yokohama, JP; Inoue, Shuji, Yokohama, JP

APPL-NO: 970046 (07)

FILED-DATE: November 2, 1992

GRANTED-DATE: November 29, 1994

PRIORITY: November 8, 1991 - 3-293004, Japan (JP); July 9, 1992 - 4-181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, JP

ASSIGNEE-AFTER-ISSUE: November 2, 1992 - ASSIGNMENT OF ASSIGNORS INTEREST., MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA, JAPAN, Reel and Frame Number: 006322/0099

LEGAL-REP: Stevens, Davis, Miller & Mosher

PUB-TYPE: November 29, 1994 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 348#699

US-ADDL-CL: 375#240.12

CL: 348, 375

SEARCH-FLD: 358#105, 358#133, 358#136, 348#413, 348#416, 348#699

APPL-NQ: 970046 (07)

FILED-DATE: November 2, 1992

GRANTED-DATE: November 29, 1994

PRIORITY: November 8, 1991 - 3-293004, Japan (JP); July 9, 1992 - 4-181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, JP

ASSIGNEE-AFTER-ISSUE: November 2, 1992 - ASSIGNMENT OF ASSIGNORS INTEREST., MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA, JAPAN, Reel and Frame Number: 006322/0099

LEGAL-REP: Stevens, Davis, Miller & Mosher

PUB-TYPE: November 29, 1994 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 348#699

US-ADDL-CL: 375#240.12

CL: 348, 375

SEARCH-FLD: 358#105, 358#133, 358#136, 348#413, 348#416, 348#699

IPC-MAIN-CL: H 04N007#137

PRIM-EXMR: Chin, Tommy P.

ASST-EXMR: Lee, Richard

REF-CITED:

<=2> 4691230, 1987, United States (US)
<=3> 4864294, 1989, United States (US)
<=4> 4989089, 1991, United States (US)
<=5> 4998168, 1991, United States (US)
<=6> 5049991, 1991, United States (US)
<=7> 5093720, 1992, United States (US)
<=8> 5105271, 1992, United States (US)

5,369,449 OR 5369449

Library: PATENT
File: CASES

IFYIC_NFYIC

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,369,449 OR 5369449

LEXIS-NEXIS
Library: PATENT
File: JNLS

Your search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,369,449 OR 5369449

LEXIS-NEXIS
Library: NEWS
File: CURNWS

Your search request has found no STORIES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.